

PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE INSTALLATION OF AN INTERSECTION CONTROL BEACON FOR THE INTERSECTION OF MD 355 (Urbana Pike) AND DOCTOR PERRY RD / BIG WOODS RD. IN FREDERICK COUNTY. MD 355 IS ASSUMED TO RUN IN A NORTH - SOUTH DIRECTION.

INTERSECTION OPERATION

THIS INTERSECTION WILL OPERATE IN A FLASHING MODE WITH FLASHING YELLOW ON MD 355 (URBAN PIKE) AND FLASHING RED ON BIG WOODS ROAD AND DR. PERRY ROAD.

CONTROLLER REQUIREMENTS

INSTALL A NEW EIGHT PHASE FULLY ACTUATED TRAFFIC SIGNAL CONTROLLER AND ASSOCIATED HARNESS IN A NEMA SIZE #6 BASE MOUNTED CABINET.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER AT SHA AT 410-787-7653 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION

ITEM#	QUANTITY	ITEM DESCRIPTION
9044	1 EA	NEMA SIZE 6 BASE MOUNTED CABINET
9570	42 SF	SHEET ALUMINUM GROUND MOUNTED SIGN (2) EA. W2-1 (36" x 36") (2) EA. D3-2 (24" x 72")
9571	63 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN (2) EA. D3-1 / M95-1 (36" x 84")

B. EQUIPMENT TO BE SUPPLIED AND/OR INSTALLED BY THE CONTRACTOR

ITEM#	QUANTITY	ITEM DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
2002	4 CY	TEST PIT EXCAVATION
5005	35 LF	24" HEAT APPLIED WHITE PERMANENT PREFORMED
8001	8 EA	12" LED SIGNAL HEAD SECTION
8016	1 EA	MAST ARM POLE AND 38' MAST ARM (15' T-DIMENSION)
8019	1 EA	MAST ARM POLE AND 50' MAST ARM (15' T-DIMENSION)
8022	1 EA	REMOVE EXISTING GROUND MOUNTED SIGNS AND SUPPORTS
8023	1 EA	TWIN MAST ARM POLE AND 50'/50' MAST ARMS (15' T-DIMENSION)
8036	260 LF	SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED (UP TO 4')
8037	115 LF	SCHEDULE 80 RIGID PVC CONDUIT-BORED (UP TO 4')
8038	56 LF	F&I WOOD SIGN SUPPORTS UP TO 4"x6"
8040	105 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN
8042	220 LF	#6 STRANDED BARE COPPER GROUND WIRE
8044	1 EA	METERED SERVICE PEDESTAL-EMBEDDED
8046	40 LF	ELECTRICAL CABLE-1 CONDUCTOR #4AWG-THHN/THWN
8048	4 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8053	3 EA	CUT, CLEAN, GALVANIZE AND CAP SIGNAL STRUCTURE
8057	105 LF	ELECTRICAL CABLE- 5 CONDUCTOR #14 AWG
8058	520 LF	ELECTRICAL CABLE- 7 CONDUCTOR #14 AWG
8065	1 EA	INSTALL CONTROLLER AND CABINET-BASE MOUNT

C. EQUIPMENT TO BE RETURNED TO SHA

NONE

PROJECT CONTACTS

MR. RICHARD DAFF CHIEF, TRAFFIC OPER. DIV. 410-787-7630	MR. RAY JOHNSON ADE MAINTENANCE 301-624-8103
MR. JOHN CONCANNON ASST. DIST. ENG - TRAFFIC 301-624-8140	MR. ED RODENHIZER SUPERVISOR, SIGNAL OPERATIONS 410-787-7650
MS. ANDREA ABEND DIST. UTILITY ENGINEER 301-624-8115	MR. SONNY BAILEY MANAGER, SIGN OPERATIONS 410-787-7670
MS. KRISSY WILEY ALLEGHENY POWER 304-367-3370	

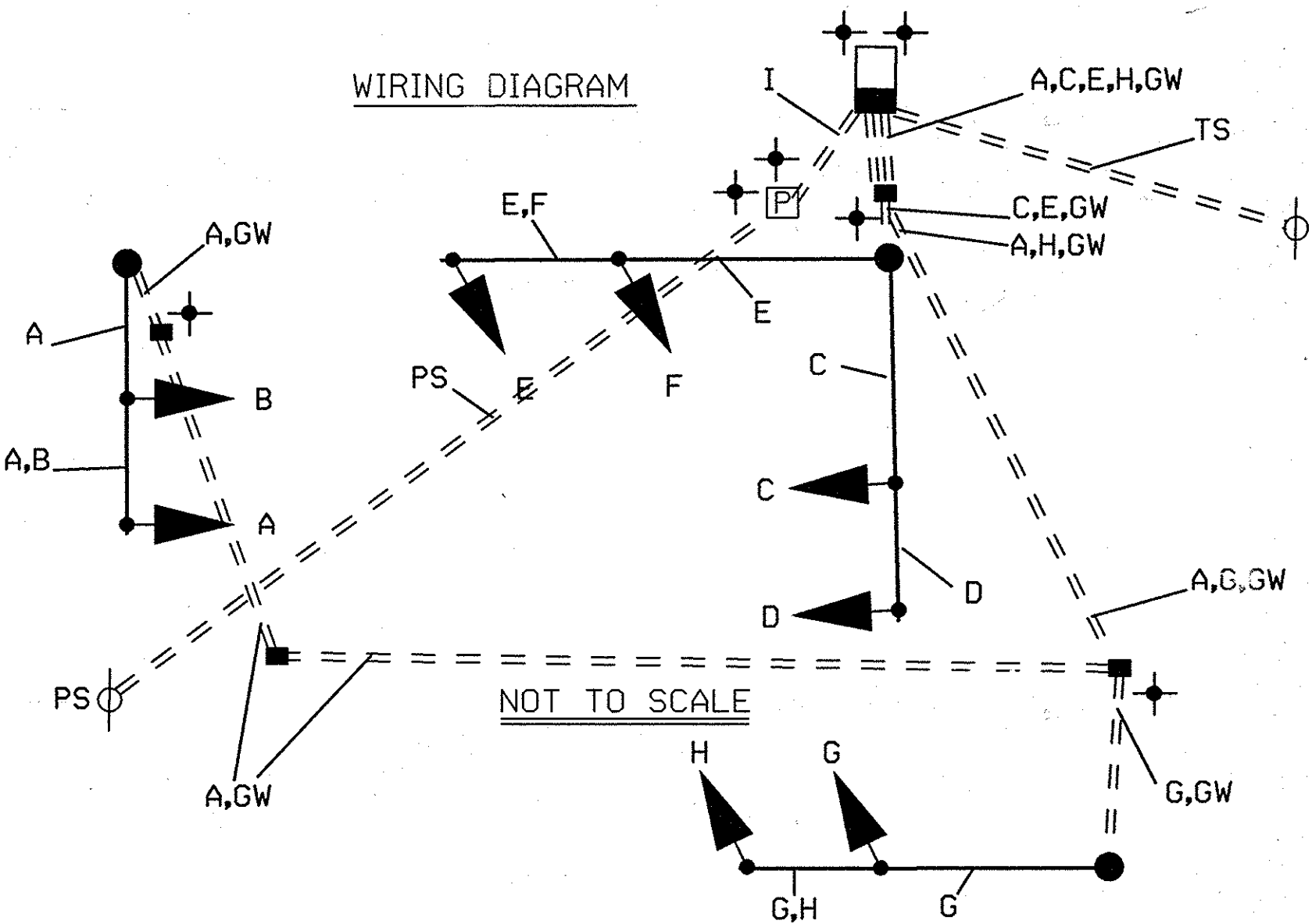
PHASE CHART

1-4 Y	5-8 R
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FL-Y FL-R

FLASHING OPERATION

WIRING DIAGRAM



A, C, E, G 7-CONDUCTOR #14AWG
B, D, F 5-CONDUCTOR #14AWG
I 1-CONDUCTOR #4AWG (3) RUNS
GW #6 STRANDED BARE COPPER GROUND WIRE
PS POWER SERVICE BY ALLEGHENY POWER
TS TELEPHONE SERVICE
Ground Rod

SHA No: FR552A51/C51

TOD No: AX142-07

MD 355 @ Big Woods Road/Doctor Perry Road



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 355 (Urbana Pike)
@ Big Woods Rd / Dr. Perry Rd

GENERAL INFORMATION SHEET

SCALE 1" = 20' DATE July 1, 2007 CONTRACT NO. AX1425185

DESIGNED BY E. RAUSER COUNTY FREDERICK
DRAWN BY E. RAUSER LOGMILE 10035502.28
CHECKED BY J. BIDDLE TMS NO. 1251
FAP NO. TOD NO.

TS NO. 4594-GJ DRAWING SG-- OF SHEET NO. 2 OF 2

PLOTTED: Wednesday, July 11, 2007 at 11:08:06 AM
FILE: MD 355 @ Big Woods Traffic Signal Plan.dgn